



**DR. R. GRIFF GORDY**  
Councilmember At Large

**STEVE BAILEY**  
Councilmember District 1

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Mayor

**DR. JOHNNIE C. ROBINSON, JR.**  
Councilmember District 2

**ARTHUR L. DAY, JR.**  
Councilmember District 3

WALLACE B. HUNTER, City Manager  
CHARLOTTE L. GOODRICH, City Clerk  
STEPHEN C. SMITH, Utilities Director

## City of Phenix City Specifications for Zinc Orthophosphate

### I. General Terms and Conditions

- a. Except as otherwise provided in this contract, the City of Phenix City shall order from the Contractor all Zinc Orthophosphate required to be purchased by the City of Phenix City during the contract period. The vendor will be required to obtain a business license with the city.
- b. It is estimated that 98,000 lbs. of Zinc Orthophosphate will be required in the operation of the Water Filtration Plant during the period September 1, 2017 – August 31, 2018. Exact quantities cannot now be determined, but estimates are given. Quantities listed may be increased or decreased to meet the requirements of the City of Phenix City during the contract period. A minimum purchase amount is not guaranteed.
- c. A purchase order for the period of October 1, 2017 – September 31, 2018 inclusive will be awarded as a result of this invitation for bid. Prices quoted shall remain firm for the entire term of the contract. The contract may be extended in one year increments for a maximum (3) three years upon written agreement of both parties. No invoices will be paid prior to acceptance of contract by City of Phenix City.
- d. Deliveries are to be made to the City of Phenix City Water Filtration Plant within (5) five days following request for each delivery. Deliveries will be accepted only between the hours of 8:00 am through 2:00 pm Eastern Time, Monday through Friday (No Exceptions).
- e. The City of Phenix City reserves the right to purchase Zinc Orthophosphate from another source if successful bidder is unable to deliver within the specified delivery time.
- f. The Zinc Orthophosphate **must** be bid in **lbs. dry weight**.
- g. The Contract may be canceled by either party with 30 days written notice for failure to comply with the provisions of this contract.



- h. Bids will be considered only from manufacturers or their authorized distributors. The authorized distributors must regularly maintain a substantial stock of zinc orthophosphate and must be actively engaged in the sale of Zinc Orthophosphate. Such stock and facilities may be examined by a representative of the City of Phenix City at any time either before award is made or during the life of the contract.
- i. The City of Phenix City reserves the right to reject any and all bids or portions of bids, waive formalities and to make such award of contract as may be deemed to be the best advantage of the City. No bids may be withdrawn within thirty (30) days after date of bid opening.
- j. Any required deposits, or other special fees shall be noted on the proposal.
- k. The contractor will provide documentation on its driver training program developed to ensure they fully understand the safety and health hazards of hazardous substances they are delivering and the handling equipment they operate in order to protect themselves, the City's staff, citizens living near the facility, and the environment.

## II. Specifications for Zinc Orthophosphate

- a. **General:** The Phenix City Water Filtration Plant is a 15 MGD surface water treatment plant. The current average of water production is 6.0 MGD. This facility has been using a blended zinc orthophosphate (3:1) in the water distribution system for the previous year. The successful bidder must maintain corrosion rates equal to or better than our present program. Cold roll mild steel coupons measuring mls/year (mpy) corrosion will be used. Corrosion analysis must be performed every (90) ninety days by an independent laboratory acceptable to the City of Phenix City, Utilities Department and test results shall be remitted to the City of Phenix City along with any recommended dosage adjustments. All cost incurred for testing will be included in the bid price. The coupons will be installed in four (4) "by-pass" racks in the distribution system as designated by the City of Phenix City, Utilities Department for monitoring corrosion rates. Coupons are to be changed out within (2) two weeks of notification of awarding bid. Analysis shall be performed on the removed coupons by an independent lab and the results submitted to City of Phenix City, Utilities Department. Local service is required during the contract period in support of chemical usage. This shall include monthly testing in the distribution system to ensure desired residual is maintained at four (4) sites. (Locations may change during the contract period). Testing shall include iron, manganese, total phosphate, chlorine, pH and zinc. Control limits in the distribution system will be **1.35-1.80 mg/l as Phosphate, <0.01 mg/l Manganese, <10.0 mg/l Iron and 0.27-0.36 mg/l Zinc.**



- b. **Support:** Supplier will provide recommendations with graphs and a report every quarter and a yearly review based upon the analysis and customer complaints associated with the corrosion control program. The supplier shall identify name, address, and phone number of two (2) individuals responsible for technical assistance and service. These individuals will be available at any time, day or night, during the contract period to provide assistance to the City.
  - c. **Product Benefits:** Product must form a protective zinc orthophosphate film on mild steel, copper, lead and other metals to control corrosion.
  - d. **Product Description:** Product must be a clear, colorless liquid with no foreign odor or materials.
  - e. **Typical Values:** Product must have the following values:
    - i. Specific gravity @ 25°C: 1.50-1.65
    - ii. Phosphate Content (as PO<sub>4</sub>): 30-60%
    - iii. Zinc Content (as Zn): 15-40%
    - iv. Zinc to Phosphate Ratio: 3:1
    - v. Lbs. per gallon : 12.51-13.76
  - f. **Packaging:** The City of Phenix City will place orders of the product for 3000-3500 gallons per order. Tanker must have ability to hold 3000-3500 gallons. Tanker must have the capability to pump product to third floor storage tank.
  - g. **Labeling Requirements:** The product must be labeled and have DOT CORROSIVE label as required by law.
  - h. **Material Safety Data Sheet:** Bidders must submit an MSDS for product offered with bid. The successful bidder must provide an MSDS for product with each delivery.
  - i. **Key Properties:** The product must be relatively non-volatile and stable at elevated temperatures.
  - j. **Governmental Approvals:** The product must be NSF approved.
- III. **Insurance Requirements:** The Supplier will be required to furnish the City with the following insurance policies prior to final award of contract:
- a. Workman's Compensation: Statutory Limits
  - b. General Liability
    - i. \$500,000 /bodily injury
    - ii. \$100,000 /property damage
    - iii. \$250,000 /each person



- c. Auto Public Liability
  - i. \$250,000 /person
  - ii. \$500,000 / Accident or occurrence
  - iii. \$100,000 /property damage
- d. Product Liability: \$1,000,000 /occurrence

**IV. Information**

- a. For information in responding to this Invitation for Bids prospective bidders may contact the City of Phenix City, Purchasing Clerk, Sara Davis (334)448-2735.
- b. To be considered, bids must be received at the City of Phenix City's Purchasing Office.

**V. Bid Amount from Vendor**

- a. Price per lb. of Zinc Orthophosphate \_\_\_\_\_ delivered in 3,000-gallon tank trailer.